



KEMENTERIAN  
PENDIDIKAN  
MALAYSIA



# UNIVERSITY FOR SOCIETY

**PROF. DR. MAZLAN  
ABD. GHAFAR, FASc**





# CURRICULUM VITAE

Mazlan bin Abd. Ghaffar



# 1. Personal Details

Full Name	Mazlan bin Abd. Ghaffar (FASc)
Title	Professor
Date of Birth	18 <sup>th</sup> April 1962
Age	59 yrs.
Nationality	Malaysian
Gender	Male
Present address (office)	Faculty of Science and Marine Environment Universiti Malaysia Terengganu 21030, Kuala Terengganu Kuala Terengganu Malaysia
Corresponding address	-
Email	<a href="mailto:mag@umt.edu.my">mag@umt.edu.my</a>
Tel.	+60 9668 5053
Fax	+60 9668 5002
Website	<a href="http://www.umt.edu.my">www.umt.edu.my</a>

# 2. Profession

Affiliation 1	Faculty of Science and Marine Environment Universiti Malaysia Terengganu Malaysia
Position	Deputy Vice Chancellor/Professor
Duration	2016 – Current
Affiliation 2	Research Fellow AKUATROPS Research Fellow Inst. Marine Biotechnology Research Fellow Inst. Of Oceanography and Environment
Position	Lecturer/Professor/Deputy Dean 1989 - 2014

Designation	Start Date	Date Ended
Professor	2008	Current
Assoc. Professor	2003	2007
Study leaves (University of Wales, Bangor)	1997	2001
Lecturer FSSA, UKM Sabah	1989	1995



### 3. Academic Qualification

Certificate / Qualification obtained	Name of School / Institution	Year obtained
Doctor of Philosophy	University of Wales	2001
Master of Science	University of Newcastle	1988
Bachelor of Science	Universiti Putra Malaysia	1985

### 4. Administrative Post

Name of Employers	Designation	Department	Start Date	Date Ended
Universiti Malaysia Terengganu, Malaysia	Dep. Vice Chancellor	FSMS/INOS UMT	2016	Current
Universiti Malaysia Terengganu	Dekan	PPSPA	2014	2016
Universiti Kebangsaan Malaysia	Deputy Dean (R&I)	Faculty Science and Technology UKM	2009	2012
Universiti Kebangsaan Malaysia	Chairman	PPSSA	2007	2008
Universiti Kebangsaan Malaysia	Head	Ocean Science Programmes PPSSSA	2004	2006
Universiti Kebangsaan Malaysia, Sabah	Head	Ocean Science Department FFSA	1994	1996





## 5. Academic Competency

H Index	Google Scholars	26 (1988 – current)	Citations: >2261
	Scopus Elsevier	18 (1996 – current)	Citations: >1191
	ISI WOS	17	Citations: >797

Research Interest	<ol style="list-style-type: none"> <li>I. Climate Change and Resiliency in Estuarine Fishes</li> <li>II. Bio-Physiology and Digestion in Fishes</li> <li>III. Dynamic Energy Budget in Air Breathing Fishes</li> <li>IV. Fish and Fisheries Sciences</li> </ol>
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Postgraduate Students	On-Going	Graduated
Ph.d (By Research only)	1	22
M.Sc. (By Research only)	-	6
M.Sc (Course work)	-	>20







## 6. Publication, Academic Writing

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### Books

1. Seah Ying Giat, **Mazlan Abd Ghaffar** and Gires Usup (2018). Ikan Kikek Semenanjung Malaysia. 192 pp 2018 Dewan Bahasa dan Pustaka
2. Seishi Kimura, Aziz Arshad, Hisashi Imamura and **Mazlan Abd Ghaffar** 2015. Fishes of the Northwestern Johor Strait Peninsular Malaysia. UPM, MIE University, 108 pp.
3. Wang, S.I., J.J., Li, M.C. Liu, H. Chang dan C.W. Chang 2015. . IKAN LUTSINAR Buku Terjemahan oleh Ying Giat Seah & **Mazlan Abd Ghaffar** 2015.. Penerbit UMT 2015. 142 p.
4. Mohd. Azmi Ambak, Mansor Mat Isa, Mohd Zaidi Zakaria and **Mazlan Abd Ghaffar** 2010. *Fishes of Malaysia*. Universiti Malaysia Terengganu Publ. Kuala Terengganu. ISBN 978-967-5366-26-0. 334 pp. 2<sup>nd</sup> Edition (2012)
5. Sallehudin Jamon, Samsudin Basir, Abd Haris Hilmi Ahmad Arshad, Zulkifli Talib and **Mazlan Abd Ghaffar** 2012. Marine Fishes in Selat Johor Malaysia. Fisheries Research Institute, Department of Fisheries Malaysia. ISBN 978-967-11260-1-1. 204 p.
6. Sallehudin Jamon, Samsudin Basir, Abd Haris Hilmi Ahmad Arshad, Zulkifli Talib Sharum Yusuf and **Mazlan Abd Ghaffar** 2010. Alat-alat Menangkap Ikan Tradisional di Negeri Johor. Jabatan Perikanan Malaysia. ISBN 978-983-9819-86-1. 72 p.
7. **Mazlan Abd Ghaffar**, Low Wei Teck and Zulkifli Talib 2010. *A field guide for sampling and identification of larval fish from coastal waters of southeastern Peninsular Malaysia*. Universiti Kebangsaan Malaysia. Selangor. ISBN 978-983-2795-13-1. 55 p.

### Contributor Joint Authorship in Book

1. Fishes of Terengganu, east coast of Peninsula Malaysia 2012
  - i. Centriscidae:- p 60; Toxotidae:- p 147; Gobiidae :- p 204-205; Scatophagidae:- p 213.
2. Fishes of the Northwestern Johor Strait Peninsular Malaysia 2015
  - i. *Periophthalmodon schlosseri* (Pallas, 1770) pg 80.
3. Field Guide to Trawl Fishes Near Bidong Island 2020
  - i. The Myriad of Teleosts p. 21 ii. Clupeidae p.23 iii. Centriscidae p.30 iv. Mullidae p.73 v. Gobidae p.90 vi. Samaridae p.97

## Chapters in Book

1. Siti Tafsir Meriam Sheikh Abdul Kadir, Meii Mohamad-Norizam, Nor Bakhiah Baharim, Takaomi Arai, Hiroyuki Motomura, Mohd Lokman Husain, Mazlan And Ghaffar and Mohd Azmi Ambak 2018. Diversity and Abundance Fish Assemblages in the Setiu Wetlands, Terengganu, Malaysia. In Mohd Tajudin et al., 2018. Greater Kenyir Landscapes: Social Developmental Sustainability; From Ridge to Reef. Springer Nature Switzerland 325 pp.
2. Cob, Z.C., Arshad, A., Muda, W.L.W., & Mazlan, A.G. (2008). Gastropod and Bivalve Mollusks Associated with The Seagrass Bed at Merambong Shoal, Johor Straits, Malaysia. In: C.A.R. Mohamed, F.K. Sahrani, M.M. Ali, Z.C. Cob & N. Ahmad (Eds.), Malaysia Marine Ecosystem: The studies of Johor DarulTakzim East Coast (pp 89-100). Marine Ecosystem Research Centre, Universiti Kebangsaan Malaysia. 176 pp.
3. Abdullah Samat, Mazlan Abd. Ghaffar & Maimon Abdullah, 2004, Fish survey of the middle reaches of Sungai Kinchin in Endau Rompin state park, Pengarang, Taman Negeri Endau Rompin, (Jilid 1), 135 - 151, Jab. Perhutanan Sem. Malaysia, Kuala Lumpur Malaysia, Salinan Keras (Kertas).
4. A.G. Mazlan, A. Samat, M. Mohd. Sazwan & C.C. Zaidi, 2005, An eco-biological study of the ichthyofauna in the Ulu Segama river tributaries, Danum Valley Conservation Area, Danum Valley Conservation Area: Physical, Biological and Social Environment, Pengarang, Ed. pertama, 231-243, Yayasan Sabah, Kuala Lumpur, Salinan Keras (Kertas),
5. Samat, A. M.N. Shukor, Mohd-Yusof Ahmad & A.G. Mazlan, 2005, Freshwater fishes of the upper sungai lasor, Ulu Muda Forest Reserve, Hutan Simpan Ulu Muda, Kedah: Pengurusan, Persekitaran Fizikal dan Biologi, Pengarang, Siri 3, Jilid. 1, Ed. Pertama, 163-172, Jab. Perhutanan Semenanjung Malaysia, Kuala Lumpur.
6. A. Samat, A.G. Mazlan & C.C. Zaidi, 2005, Occurrence, abundance and habitat preference of the balitorid fishes in six perennial forest streams of Danum Valley Conservation area, Danum Valley Conservation Area: Physical, Biological and Social Environments, Pengarang, Ed. Pertama, 217 - 230, Yayasan Sabah, Kuala Lumpur, Salinan Keras (Kertas),
7. C.C. Zaidi, A. Samat & A.G. Mazlan, 2005, Diversity and distribution of benthic macroinvertebrate fauna of Sungai Purut, Danum Valley Conservation Area, Danum Valley Conservation Area: Physical, Biological and Social Developments, Pengarang, Ed. Pertama, 204 - 216, Yayasan Sabah, Kuala Lumpur, Salinan Keras (Kertas),
8. Faridah, Y., M. N. Shukor & A. G. Mazlan, 2005, Foraging behaviour and food selection of giant mudskipper (*Periophthalmodon schlosseri*) Pallas 1770 at Kuala Gula, Matang mangrove reserve, Perak, SUSTAINABLE MANAGEMENT OF MATANG MANGROVES: 100 YEARS AND BEYOND, Pengarang, Ed. 1 Jilid 1, Ms. 304-311, Jabatan Perhutanan Semenanjung Malaysia, Kuala Lumpur, Salinan Keras (Kertas),
9. Mazlan, A. G., A. Samat, C. C. Zaidi, M. N. Shukor, Che Abd. Rahim Mohamad & B. H. R. Othman, 2005, On the biology of the spotted catfish (*Ariidae: Arius maculatus*) collected from Matang mangrove forest reserve, SUSTAINABLE MANAGEMENT OF

MATANG MANGROVES: 100 YEARS AND BEYOND, Pengarang, Edisi 1 Jilid 1, Ms. 304-311, Jabatan Perhutanan Semenanjung Malaysia, Kuala Lumpur, Salinan Keras (Kertas),

10. Abdullah Samat, M. N. Shukor, Mohd. Yusoff Ahmad & A. G. Mazlan, 2005, Fishes of torrential unnamed tributaries of Sungai Gala in Gunung Stong area, TAMAN NEGERI GUNUNG STONG, KELANTAN: Pengurusan, Persekitaran Fizikal, Biologi dan Sosio-ekonomi., Pengarang, Edisi 1. Jilid 1, Ms. 205-213, Jabatan Perhutanan Semenanjung Malaysia, Kuala Lumpur, Salinan Keras (Kertas),
11. Mazlan A.G., Zaidi, C.C. & Che Rahim M., 2005, Fisheries Resources of Kilim Mangrove Forest Reserve, Lembangan Kilim: Warisan Budaya dan Sumber Asli Langkawi, Pengarang, Edisi 1 Jilid 1, Ms 129-138, LESTARI UKM, UKM Selangor, Salinan Keras (Kertas),
12. Che Abd. Rahim, M. Tee L.T., Hooy, C.S. Khairul Nizam, Mazlan A.G., Zaidi C.C. & Zaharuddin A., 2005, Preliminary study on the concentration of <sup>210</sup>Pb in coastal water Northeast of Pulau Langkawi, Lembangan Kilim: Warisan budaya dan sumber asli Langkawi, Pengarang, Edisi 1 Jilid 1, Ms 211-220, LESTARI UKM, UKM Selangor, Salinan Keras (Kertas),
13. Zaidi, C.C., Tukimat L., Che Rahim M. & Mazlan A.G., 2005, Macroinvertebrate fauna of Kilim Magnrove, Langkawi, Lembangan Kilim: Warisan budaya dan sumber asli Langkawi, Pengarang, Edisi 1, Jilid 1, Ms 269-278, LESTARI UKM, UKM Selangor, Salinan Keras (Kertas),
14. Mazlan, A.G. Jacqueline, L. Amirrudin, A.Jamil, M., Syed Ahmad Rizal, T.N., Abd. Rahman, A.R., Abdullah, S. & Shamsul Bahar, A., 2005, Commercial fisheries resources of Sg. Bebar: Toward future sustainable development, Biodiversity Expedition Sungai Bebar, Pekan Pahang, Pengarang, Summary Findings: PSF Tech. Series No. 4, Edisi 1 Jilid 1, Ms 141-144, UNDP/GEF FRIM, FRIM Selangor, Salinan Keras (Kertas),
15. N Abd Jamal Maidin, Che Abd Rahim Mohamed, Mazlan Abd Ghaffar, Masni Ali dan Kee Alfian Abd. Adzis, 2006, 1. Siri Penyelidikan & Maklumat Perairan Malaysia, Ekosistem Marin Malaysia: Peluang & Penyelidikan Terkini, Penyunting, Melibatkan Penyelidikan, 983-42949-4-8, 244, Taman Laut Malaysia, Kementerian Sumber Asli, Kuala Lumpur, Salinan Keras (Kertas),
16. Amirrudin, A., Mazlan, A.G., Syed Ahmad Rizal, T.N., Abd. Rahman, A.R.,Jamil, M., Jacqueline, L., Husdi, S. & Abdullah, S., 2005, Freshwater fishes of Sg. Bebar and Adjacent Areas, Biodiversity Expedition Sg. Bebar, Pekan, Pahang, Pengarang, Summary Findings: PSF Tech. Series No. 4, Edisi 1 Jilid 1, Ms 145-148, UNDP/GEF FRIM, FRIM Selangor, Salinan Keras (Kertas).



# Ikan Lut Sinar

Penulis: **Shao I Wang, Jheng Jhang Li, Ming Chin Liu, Hai Chiang, Chih Wei Chang**

Penterjemah: **Ying Giat Seah, Mazlan Abd Ghaffar**

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# MAZLAN ABD. GHAFAR

(Prof. Dr.)



CONTACT

☎ : +(609) 668 4507  
☎ : +(019) 326 6263  
☎ : +(609) 668 4507  
✉ : mag@umt.edu.my

## EXPERTISE

**Field**  
Fisheries

**Expertise**  
Fish Biology

**Specialization**  
Ichthyology  
Fish Behaviour  
Fish Physiology

## EDUCATION



BSc. (UPM)



MSc. (U. Newcastle)



PhD (UKM)

## RESEARCH INTEREST

My research interest is focused on the physiology and biology of fishes in response to climate changes. This field of research required detail understanding of fishes biology and physiology and specific organ function. Development of resiliency in response to climate changes parameters such as temperature and salinity in many fishes are species specific. Conducting this research in the field are cumbersome due to many un-control variable in the surrounding. Therefore laboratory validation of the fishes response to various climate changes parameters has expanded greatly due to the development of high-throughput experimental methodologies. These experimental methods provide the keys to a greater understanding of resiliency in response to climate changes parameters. These approaches can discover truly novel bio-physiology, and I am committed to apply the results of the experiment in the real world system. Other research interests I have explored in the past few years were the eco-biology of our fascinating giant mudskipper and it associated co-existing smaller mudskipper species and development of resiliency amongst the selected estuarine fishes species.

## PROFESSIONAL MEMBERSHIP

- ☞ Ichthyological Society of Japan
- ☞ Marine Biology Association of United Kingdom
- ☞ Malaysian Fisheries Society
- ☞ Asean Fisheries Society



## NETWORKING

- ☞ Mie University, Mie Japan
- ☞ National Museum for Science and Nature Tokyo, Japan
- ☞ University of Kagoshima, Japan
- ☞ University of Hokkaido, Japan
- ☞ Institute for East China Sea Research, Japan



## PUBLICATION

- ☞ Scopus ID : 6508246447
- ☞ Researchgate : Mazlan A.G.
- ☞ Google Scholar : Dr Mazlan Abd Ghaffar



DIRECTORY OF  
**EXPERT**  
SCHOOL OF FISHERIES &  
AQUACULTURE SCIENCES  
**FiSHA**

# 7. Journals, Proceedings, Chapters in Book and Other Academic Publications = >270

## Selected Publication: 2010 – 2021

### Selected Publication: 2010 – 2021

- 1 Suhaini Mohamad, Hon Jung Liew, Rabiatul Adawiyah Zainudin, Syarifah Rahmah, Khor Waiho, Mazlan Abd Ghaffar, Hua Tha Nhan, Jiun-Yan Loh, Leong-Seng Lim, Yumei Chang, Liqun L:iang, Gudrun De Boeck 2021. High Temperature and low pH stress alter gill phenotypic plasticity of Hoven's Carp *Leptobarbus hoevenii*. Journal of Fish Biology. <https://doi.org/10.1111/jfb.14712>. February 2021
- 2 Nur Ilham Syahadah Mohd Yusoff, Tun Nurul Aimi Mat Jaafar, Veera Vilastri, Siti Azizah Mohd Nor, Ying Giat Seah, Ahasan Habib, Li Lian Wong, Muhd Danish-Daniel, Yeong Yik Sung, Abd Ghaffar, Mazlan, Rumeida Mat Piah, Shahrol Idham Ismail & Min Pau Tan 2021. Genetic Diversity, population structure and historical demography of the two-spined yellowtail stargazer (*Uranoscopus cognatus*). Scientific Reports. <https://doi.org/10.1038/s41598-021-92905-6>
- 3 De, M., M.A. Ghaffar, Y. Bakar, Z.C. Cob, S.K. Mazumder and S.K. Das 2021: Effects of temperature and diet on pepsin enzyme activity of TGGG hybrid grouper, *Epinephelus fuscoguttatus* ♀ x *E. lanceolatus* ♂. *J. Environ. Biol.*, **42**, 812-816 (2021)
- 4 Kamaruzzaman, Y.N., Mustapha, M.A. & Ghaffar, M.A. 2021. Determination of Fishing Grounds Distribution of the Indian Mackerel in Malaysia's Exclusive Economic Zone Off South China Sea Using Boosted Regression Trees Model. *Thalassas* **37**, 147–161 (2021). <https://doi.org/10.1007/s41208-020-00282-0>
- 5 Simon KumarDas<sup>ab</sup>MoumitaDe<sup>a</sup>Mazlan Abd.Ghaffar<sup>c</sup>Noorashikin MdNoor<sup>a</sup> Sabuj KantiMazumder<sup>d</sup>YosniBakar<sup>a</sup> 2021, Effects of temperature on the oxygen consumption rate and gill fine structure of hybrid grouper, *Epinephelus fuscoguttatus* ♀ x *E. Lanceolatus* ♂ Journal of King Saud University - Science vol. 33(2) 101358
- 6 Yuslan, A.; Najuwaa, S.; Hagiwara, A.; Ghaffar, M.A.; Suhaimi, H.; Rasdi, N.W. Production Performance of *Moina macrocopa* (Straus 1820) (Crustacea, Cladocera) Cultured in Different Salinities: The Effect on Growth, Survival, Reproduction, and Fatty Acid Composition of the Neonates. *Diversity* **2021**, *13*, 105. <https://doi.org/10.3390/d13030105>
- 7 Yusnita A Thalib, Ros Suhaida Razali, Suhaini Mohamad, Rabi'atul 'Adawiyah Zainuddin, Sharifah Rahmah, Mazlan Abd. Ghaffar, Hua Thai Nhan, Hon Jung Liew, 2021. Environmental changes affecting physiological responses and growth of hybrid grouper – The interactive impact of low pH and temperature, Environmental Pollution, Volume 271, 2021, 116375, ISSN 0269-7491, <https://doi.org/10.1016/j.envpol.2020.116375>.
- 8 Sabuj Kanti Mazumder, **Mazlan Abd Ghaffar**, Simon Kumar Das, 2020. Effect of Temperature and Diet on gastrointestinal evacuation of juvenile Malabar bloodsnapper (*Lutjanus malabaricus* Bloch & Schneider, 1801). *Aquaculture* 2020-05. Doi:- 10.1016/j.aquaculture.2020.735114
- 9 Zalina Basir, Maizah M. Abdullah, Mazlan Abd Ghaffar, Mohd Uzair Rosli, 2020. Exclusive predation of sea turtle hatchlings by juvenile blacktip reef sharks *Carcharhinus melanopterus*

at a turtle nesting site in Malaysia. Journal of Fish Biology. September 2020. DOI: 10.1111/jfb.14550. 1876-1879 pp.

- 10 Min Pau Tan, Han Ming Gan, Mohd Hamzah, Nabilsyafiq, **Abd Ghaffar, Mazlan**, Tun Nurul Aimi Mat Jaafar, Mohd Nor Siti Azizah, Muhd Danish-Daniel & Yeong Yik Sung 2020. Genetic Diversity of the Pearse's Mudskipper *Periophthalmus novemradiatus* (Perciformes: Gobiidae) and Characterization of its Complete Mitochondrial Genome. Thalassas: An International Journal of Marine Sciences 2020. 1-11. DOI:10.1007/s41208-019-00189-5. ISSN: 0212-5919 (Print) 2366-1674 (Online).
- 11 Noorhani Syahida Kasim, Tun Nurul Aimi Mat Jaafar, Rumeaida Mat Piah, Wahidah Mohd Arshaad, Siti Azizah Mohd Nor, Ahasan Habib, **Mazlan Abd Ghaffar**, Yeong Yik Sung, Muhd Danish-Daniel and Min Pau Tan 2020. Recent population expansion of longtail tuna *Thunnus tonggol* (Bleeker, 1851) inferred from the mitochondrial DNA markers. PeerJ 8:e9679 DOI 10.7717/peerj.9679.
- 12 Noor, N.M., De, M., Iskandar, A., Keng, W.L., Cob, Z.C., **Ghaffar, M.A.**, Das, S.K. 2019. Effects of elevated carbon dioxide on the growth and welfare of Juvenile tiger grouper (*Epinephelus fuscoguttatus*) × giant grouper (*E. lanceolatus*) hybrid. Aquaculture Vol. 513 15 November 2019, Article number 734448.
- 13 Diana Atiqah Zainal Abidin, Simon Kumar Das, and **Mazlan Abd Ghaffar** 2019. Length-weight relationship, condition factors and trophic level of Buffon's river-garfish *Zenarchopterus buffonis* from the coastal waters of Malaysia. Songklanakarin J. Sci. Technol. 41 (5), 1162-1170, Sep. – Oct. 2019
- 14 Moumita De, **Mazlan, A.G.**, Noor, N.M. Cob, Z.C., Bakar, Y. and Das, S.K. 2019. Effects of water temperature and diet on blood parameters and stress levels in hybrid grouper (*Epinephelus fuscoguttatus* ♀ × *E. lanceolatus* ♂) juveniles. Aquaculture Report. 2019. [doi.org/10.1016/J.AQREP.2019.100219](https://doi.org/10.1016/J.AQREP.2019.100219)
- 15 Nabilsyafiq, M.H., Gan, H.M., Abd. **Mazlan, A.G.**, Mat Jaafar, T.N.A., Danish-Daniel, M., Sung, Y.Y., Tan, M.P. 2019. ND5 gene marker reveals recent population expansion of wild pearse's mudskipper (*Periophthalmus novemradiatus* hamilton) inhabits Setiu wetlands in east Peninsular Malaysia. Malaysian Applied Biology 48(1), pp. 87-93.
- 16 Husna, W. N. W. H., Nurul-Amin, S. M., **Mazlan, A. G.** and Cob, Z. C. 2019. Food Consumption and assimilation of the adult Dog Conch *Laevistrombus canarium* (Linnaeus 1758) at difference temperature. Malaysian Journal of Science 08/2019: 38(2): 98-114 pp.
- 17 Nadiah Wan Rasdi, Hidayu Suhaimi, Atsushi Hagiwara, Mhd. Ikhwanudin, **Mazlan A.G.**, Aminah Yusran, Sharifah Syed Umar 2019. Effects of different salinities gradient on fatty acid composition, growth, survival and reproductive performances of *Moina macrocapa* (Straus 18220) Crustacea: Cladocera. PrePrints doi.10.201906.0205/v1. 2019
- 18 Mazumder, S.K. Ghaffar, M.A., Das, S.K. 2019. Exploring the suitable temperature and diet for growth and gastric emptying time for juvenile Malabar Blood Snapper (*Lutjanus malabaricus* Bloch & Schneider 1801) Thalassas 35(1) 29 - 41 pp.
- 19 Norashikin Md Noor, Zaidi Che Cob, **Mazlan Abd Ghaffar**, Simon Kumar Das 2019. An evaluation of the effect of salinities on oxygen consumption and wellbeing in the hybrid

grouper *Epinephelus fuscoguttatus* x *E. lanceolatus*. Turkish Journal of Fisheries & Aquatic Science. 19(12), 1017-1023 pp.

- 20 Sabuj K. Mazunder, **Mazlan A. Ghaffar**, Takeshi Tomiyama, Simon K. Das 2019. Effects of acclimation temperatures on the respiration physiology and thermal coefficient of Malabar blood snapper. *Respirator Physiology & Neurobiology* 268 103253 (Elsevier)
- 21 Mei Ling Khoo, Simon Kumar Das & **Mazlan Abd Ghaffar** 2019. Gastric Emptying and the Enzymatic Activity in the Stomach of *Amphiprion ocellaris* Fed on Artificial Diet. *Sains Malaysiana* 48(1) 2019: 1-6 pp
- 22 Azmi, N.F., **Ghaffar, M.A.**, Cob, Z.C. 2019. Apicomplexa-like parasites in some gastropods from Merambong seagrass bed, Johor Straits, Malaysia. *Turkish Journal of Fisheries and Aquatic Sciences* 19(2) 2019. 89-97 pp.
- 23 A.Z.A. Diana, K.D. Simon, B. Yosni and **A.G. Mazlan**, 2018. Intraspecific morphometric and meristic variation among *Zenarchopterus buffonis* (Valenciennes, 1847) from coastal waters of Malaysia. *Malayan Nature Journal* 2018 70(4) 387-405 pp.
- 24 R. Mat Piah, S.A. Kamaruddin, N.L. Buang and **M.A. Ghaffar**, 2018. Age composition of two dominant fish species in fringing shallow water of Bidong Island, South China Sea, Malaysia. *Journal of Environmental Biology, Special issue Vol 39 (5)*. 849-856 pp.
- 25 Mei Ling Khoo, Simon Kumar Das and **Mazlan Abd Ghaffar** 2018. Growth pattern, diet and reproductive biology of the clownfish *Amphiprion ocellaris* in waters of Pulau Tioman, Malaysia. *Egyptian Journal of Aquatic Research*. 44(2018). 233-239 pp.
- 26 Noorashikin Md Noor, Simon Kumar Das, Zaidi Che Cob & **Mazlan Abd Ghaffar** 2018. Effect of salinities on gastric emptying and nutrient absorption of Tiger Grouper x Giant Grouper (*Epinephelus fuscoguttatus* x *E. lanceolatus*) hybrid. *Sains Malaysiana* 47(6). 1077-1084 pp.
- 27 M. Nadirah, M. A. B. Tajuddin, M. Najiah, **M. Abd Ghaffar** and K.L. Lee 2018. Effects of 17 $\beta$ -ethinylestradiol on embryo survival, hatchability and larval deformities in African catfish, *Clarias gariepinus*. *Journal of Environmental Biology, Special issue Vol. 39(5)*. 931-935 pp.
- 28 Alam, M.T., Hussain, M.A., Sultana, S., Hasan, M.T., **Mazlan, A.G.**, Simon, K.D. and Mazumder, S.K. 2018. Population growth and reproductive potential of five important fishes from freshwater bodies of Bangladesh. *Iranian Journal of Fisheries Sciences* 17(4) 657-674 pp.
- 29 Sabuj Kanti Mazumder, Simon Kumar Das, Saleh M. Rahim & **Mazlan Abd. Ghaffar**. 2018. Temperature and diet effect on the pepsin enzyme activities,

digestive somatic index and relative gut length of Malabar blood snapper (*Lutjanus malabaricus* Bloch & Schneider, 1801), *Aquaculture Reports* , 1-9.

22. Azmi, N.F., **Ghaffar M.A.**, Daud, H.H.M., Cob, Z.D. 2018. Ultrastructural analysis of Apicomplexa-like parasites in two conch species *Laevistrombus canarium* and *Canarium urceus* from Johore Straits, Malaysia. *Journal of Invertebrate Pathology* 152. 17-24 pp.
23. Hashim, M., Abidin, D.A.Z., Das, S.K. and **Ghaffar, M.A.** 2018. Gastric Emptying and food consumption of *Scatophagus argus*,. *AACL Biolux*. 11 (1). 278-287 pp.
- 24 Noor, N.M., Das, S.K., Cob, Z.C., and **Ghaffar, M.A.** 2018. Effects of salinities and diets on growth of juvenile hybrid grouper, *Epinephalus fuscoguttatus* x *E. lanceolatus*. *Turkish Journal of Fisheries and Aquatic Sciences*. 18(9). 1045-1051 pp.
- 25 Sabuj Kanti Mazumder, **Mazlan Abd Ghaffar**, Simon Kumar Das. 2018. Exploring the Suitable Temperature and Diet for Growth and Gastric Emptying Time of Juvenile Malabar Blood Snapper (*Lutjanus malabaricus* Bloch & Schneider, 1810). *Thalassas: An International Journal of Marine Sciences*. <https://doi.org/10.1007/s41208-018-0081-2>. Copyright Springer International Publishing AG, part of Springer Nature 2018.
- 26 Diana Atiqah Zainal Abidin, Simon Kumar Das and **Mazlan Abd Ghaffar** (in press). Length-weight relationship, condition factors and trophic level of Buffon's river-garfish *Zenarchopterus buffonis* from coastal waters of Malaysia. *Songklanakarin Journal of Science and Technology*
- 27 WNWH Husna, **AG Mazlan**, ZC Cob (2017). Ontogenetic changes in feeding and food preferences of the dog conch *Laevistrombus canarium* Linnaeus 1758 (Mollusca: Gastropoda) from Merambong shoal, Malaysia. *Chinese Journal of Oceanology and Limnology* 35 (5) , 1230-1238.
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## Article accepted in in publication pipeline:

- (1) Growth pattern, diet and reproductive biology of the clownfish *Amphiprion ocellaris* in waters of Pulau Tioman, Malaysia-Accepted in Egyptian J. of Aquat. Res. (Paid Rm. 1561) (In press)

Khoo M.L, Simon K.D., and Mazlan, A.G

- (2) Gastric emptying and the enzymatic activity in the stomach of *Amphiprion ocellaris*-fed on artificial diet. (Submitted after revision)

Khoo M.L, Simon K.D., and Mazlan, A.G.

## PROCEEDINGS

### (i) ABSTRACT IN PROCEEDINGS [Total: 62]

1. Min Pau Tan\*, Mohd Hamzah Nabilisyafiq, Han Ming Gan, Mat Jaafar Tun Nurul Aimi, and **Abd. Ghaffar Mazlan** 2018. Genetic diversity of the Pearse's mudskipper, *Periophthalmus novemradiatus* (Perciformes: Gobiidae) inhabits Setiu Wetland, Terengganu, Malaysia. IFS2018 THAILAND, NOVEMBER 18 – 21, 2018. Pg. 272.
2. Yusnita A Thalib\*, Hon Jung Liew, Ros Suhaida Razali, Sharifah Rahmah, **Mazlan Abd. Ghaffar**, and Gudrun De Boeck 2018. Physiological responses between stenohaline and euryhaline teleost under interactive high environment temperature and acidification. IFS2018 THAILAND, NOVEMBER 18 – 21, 2018. Pg 280.
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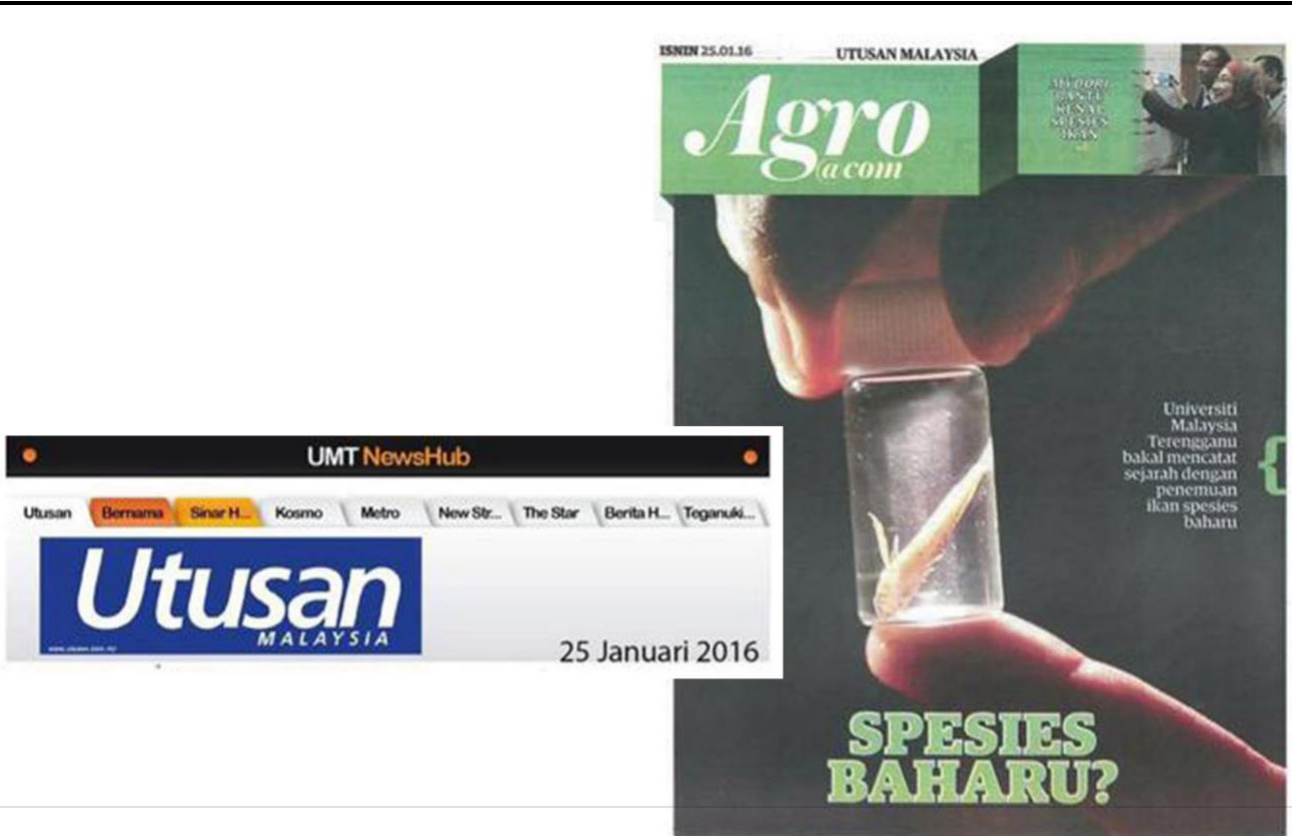
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54. AZIZ ARSHAD and **MAZLAN ABD GHAFFAR**, 2006. Feeding Guilds of Some Selected Seagrass Fish Species. Paper presented at the JSPS-ASEAN Fish Taxonomy Workshop in the University of Philippines at the Visayas, Iloilo City, Panay, Philippines, 4 – 8<sup>th</sup> December 2006.
55. **MAZLAN ABD GHAFFAR** and AZIZ ARSHAD, 2006. Amphibious Adaptation of Oxudercine Mudskippers Species *Ps chrysospilos* (Bleeker 1852). Paper presented at the JSPS-ASEAN Fish Taxonomy Workshop in the University of Philippines at the Visayas, Iloilo City, Panay, Philippines, 4 – 8<sup>th</sup> December 2006.
56. ABDULLAH S., FATIMAH M.Y., **MAZLAN A.G.**, A. ARSHAD and SHUKOR M.N., 2005. The Variation in Fecundity and Egg Size of Alien Invasive Armoured Catfish, *Petrygoplichthys pardalis* (Castelnau 1855). Poster paper presented at the 8<sup>th</sup> Applied Biology Symposium: Advances in Life Sciences: Improving the Quality of Life. Marriott Putrajaya Hotel, 22<sup>nd</sup> -23<sup>rd</sup> June 2005.
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58. AZIZ ARSHAD, **MAZLAN ABD GHAFFAR** and ZULFIGAR YASIN, 2004. Coral Reef Fishes of the ROSES Expedition. Oral paper presented at the JSPS – VAST International Workshop on Marine Fish Diversity, National Institute of Oceanography, Nha Trang, Vietnam, 4<sup>th</sup> – 9<sup>th</sup> October 2004.

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- 60. MAZLAN A.G., NG M.Y., ALMIRA N.R. and A. ARSHAD, 2003. *A Biodiversity Survey of Marine Fishes in the Malaysian Protected Areas: On the EcoBiology of Sand Goby Species of the Redang Marine Park, Terengganu, Malaysia*. Oral paper presented at the JSPS-NaGISA Workshop on Fish and Polychaete Taxonomy. Phuket Marine Biological Station. Phuket (PMBC), Phuket, Thailand, 27<sup>th</sup> – 29<sup>th</sup> September 2003.



**agro** KAEDAH MENENTUKAN SPESIES HAIWAN YANG DITEMUKAN > Pergawitan > Carian spesies berkenaan dijumpai > Dapatkan maklumat dengan maklumat yang berkenaan > Penyelidikan > Pemeriksaan > Dokumentasi

# Teroka khazanah laut

Menilai biodiversiti marin negara menerusi ekspedisi saintifik

**Penerokaan saintifik antarabangsa**

Sebuah ekspedisi saintifik antarabangsa yang diketuai oleh Prof. Dr. Shuib, telah tiba di Pulau Biting, Terengganu untuk menjalankan kajian biodiversiti marin negara. Ekspedisi ini merupakan sebahagian daripada projek kerjasama antara Universiti Malaysia Terengganu (UMT) dan Institut Penyelidikan Perikanan, Makanan dan Pertanian (IPMP) Kementerian Pertanian, Mentera dan Perdagangan Antarabangsa dan Perdagangan (MAMPU).

UMT telah menerima surat jemputan daripada IPMP untuk menyertai ekspedisi ini. Ekspedisi ini bertujuan untuk menilai biodiversiti marin negara dan mengenalpasti spesies baharu. Tim ekspedisi terdiri daripada ahli-ahli dari UMT dan IPMP.

Salah satu aktiviti utama ekspedisi ini adalah pengambilan sampel air laut dan sedimen di kawasan-kawasan tertentu di Pulau Biting. Sampel-sampel ini akan dianalisis di makmal untuk mengenalpasti spesies-spesies yang ada.

Tim ekspedisi juga akan menjalankan kajian mengenai persekitaran marin di kawasan-kawasan tersebut. Ini termasuk kajian mengenai kualiti air, suhu, saliniti, dan faktor-faktor lain yang mempengaruhi biodiversiti marin.

Hasil daripada ekspedisi ini akan digunakan untuk membangunkan strategi pemuliharaan biodiversiti marin negara. Ini termasuk mengenalpasti kawasan-kawasan yang memerlukan perlindungan dan melaksanakan langkah-langkah pemuliharaan yang sesuai.

Ekspedisi ini merupakan sebahagian daripada projek kerjasama antara UMT dan IPMP. Projek ini bertujuan untuk meningkatkan kerjasama antara kedua-dua institusi dalam menjalankan kajian-kajian saintifik dan pembangunan sumber manusia.

UMT telah menerima surat jemputan daripada IPMP untuk menyertai ekspedisi ini. Ekspedisi ini bertujuan untuk menilai biodiversiti marin negara dan mengenalpasti spesies baharu. Tim ekspedisi terdiri daripada ahli-ahli dari UMT dan IPMP.

Salah satu aktiviti utama ekspedisi ini adalah pengambilan sampel air laut dan sedimen di kawasan-kawasan tertentu di Pulau Biting. Sampel-sampel ini akan dianalisis di makmal untuk mengenalpasti spesies-spesies yang ada.

Tim ekspedisi juga akan menjalankan kajian mengenai persekitaran marin di kawasan-kawasan tersebut. Ini termasuk kajian mengenai kualiti air, suhu, saliniti, dan faktor-faktor lain yang mempengaruhi biodiversiti marin.

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Universiti Malaysia Terengganu bakal mencatat sejarah dengan penemuan ikan spesies baharu



# 8. International Networking 2010 - Present

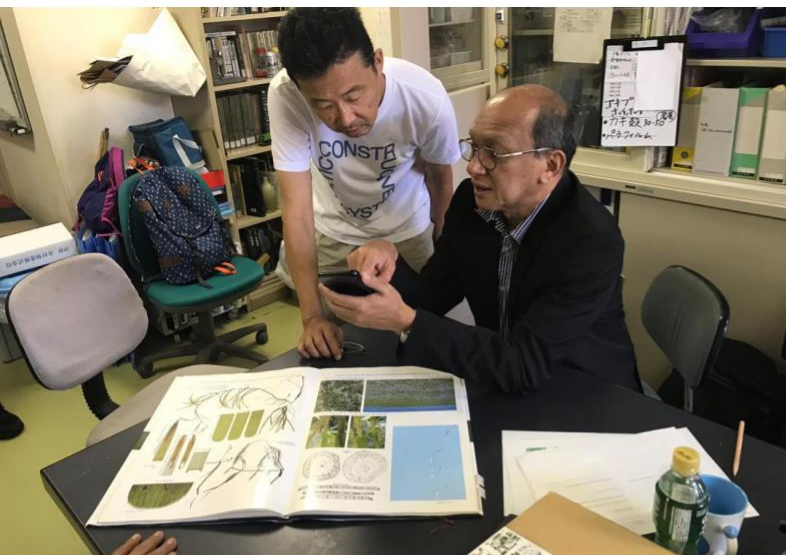
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1. National Leader (2019 – Current) : Prof Dr Mazlan Abd Ghaffar  
JSPS RENSEA (New Malaysia Chapter)  
- National Group Leader : Prof. Dr. Mazlan Abd. Ghaffar  
G2F JSPS Asean Core Programme  
JSPS Member Collaborator :
  - i. Prof Dr Hitoshi Saito (AORI University of Tokyo)
  - ii. Prof. Dr. Seishi Kimura (Mie University, Mie Japan)
  - iii. Prof. Dr. Keiichi Matsuura (National Museum for Science and Nature Tokyo)
  - iv. Prof. Dr. Hiroki Motomura (University of Kagoshima, Japan)
  - v. Prof. Dr. Imamura (University of Hokkaido, Hakkodate)
2. Research Collaborator: Prof Dr Mazlan Abd Ghaffar and Dr Masanori Nakae National Museum of Science and Nature, Tsukuba Japan
3. Research Collaborator: Prof. Dr. Mazlan Abd. Ghaffar and Prof. Dr. Atsushi Ishimatsu University of Nagasaki, Seika Marine Laboratory, Institute of East China Sea
  - a. Physiological and Biological response of marine organism on climate changes and Ocean Acidification
  - b. Physiology of the Giant MudSkipper
4. Coordinator : Prof. Dr. Mazlan Abd. Ghaffar  
Dynamic Energy Budget Joint Research Group with SWIMS and UniPA  
Collaborator :
  - i. Prof. Dr. Gianluca Sara University of Pallermo, Sicily Italy (UniPA)
  - ii. Prof. Dr. Grey William SWIRE Institute of Marine Science, University of Hong Kong (SWIMS)
5. Research Collaborator : Prof. Dr. Mazlan Abd. Ghaffar and Dr. Somchai Bussarawit (Thailand Museum of Science and Natural History)
6. Research Collaborator : Prof. Dr. Mazlan Abd. Ghaffar  
Collaborator : Prof. Dr. Wanshu Hong (Xiamen University, China) On the Phylogenetics of the Oxudercine Mudskipper spp.











## 9. Research Grants

### Project Leader (Selected projects 2009 - 2015)

CODE	TITLES	AMOUNT	STATUS	YEARS
04-01-02-SF0124	Assessment of the mangrove ecosystem through resistance and resilience of coastal marine fishes and associated fauna Malaysia	RM268,280	Completed	Dec. 2009
04-01-02-SF0731	Population biology, feeding physiology and reproductive potential of selected fish species in Malaysian estuarine ecosystem.	RM328,500	Completed	Nov. 2013
ERGS-UKM-01/02	Temperature effect on digestion physiology and growth of grouper (Epinephelus coioides)	RM93,000	Completed	Dec 2012
STGL-01-02 (Luar) Phase 1	Establishment of Research and Education Network On Costal Marine Science in Southeast Asia, Comsea (Biodiversity-Fish)	RM100,000	Completed	Dec 2013
STGL-01-02 (Luar) Phase 2	Establishment of Research and Education Network On Costal Marine Science in Southeast Asia, Comsea (Biodiversity-Fish)	RM100,000	Completed	Dec 2014
UMT 53177 Phase 3	Establishment of Research and Education Network On Costal Marine Science in Southeast Asia, Comsea (Biodiversity-Fish)	RM140,000	Active	2015/2016
SRG UMT 55196	Contrasting effects of IPCC Climate Change Parameters and Ocean Acidification on the growth and health performance in selected marine organism	RM296,000	Active	2019/2022

LRGS KPT Ocean Climate Change: Potential Risk, RM 3,547,500.00 Active  
2020 2020  
56040 Impact and Adaptation Towards  
Marine and Coastal Ecosystem Services  
In Malaysia

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# Tahniah

**Prof. Dr.  
Mazlan Abd. Ghaffar FASc**

Timbalan Naib Canselor  
(Penyelidikan dan Inovasi)

atas penganugerahan sebagai

*Fellowship of the  
Academy of  
Science Malaysia*





## Sub-Project Leader:

CODE	TITLES	AMOUNT	STATUS	YEARS
ZF-2015-026	Program Data Alam Sekitar di sepanjang selat johor dan batuan tengah dan tubir selatan	RM 2.9 mill.	Active	2017
SK/06/2009/ GLKK	Projek Analisis Perubahan Persekitaran di Kawasan Selat Johor dan Laut China Selatan	RM 10 mill.	Active	Dec. 2016
SK/10/2007/ GLKK	Strategic Planning and Managing Singapore Land Reclamation Activities II, 2007-2010	RM3.8 mill.	Active	Nov. 2016
04-01-02- SF0753	Understanding the spatial and temporal relationship of ocean biophysical parameters with habitat utilization of <i>Rastrelliger kanagurta</i> (Indian mackerel) off South China Sea.)	RM300,620.	Completed	Dec 2014
04-01-02- SF1208	Effects of temperature on physiological status of red snapper ( <i>Lutjanus campechanus</i> , Poey 1860)	RM196,000	Active	Oct. 2016

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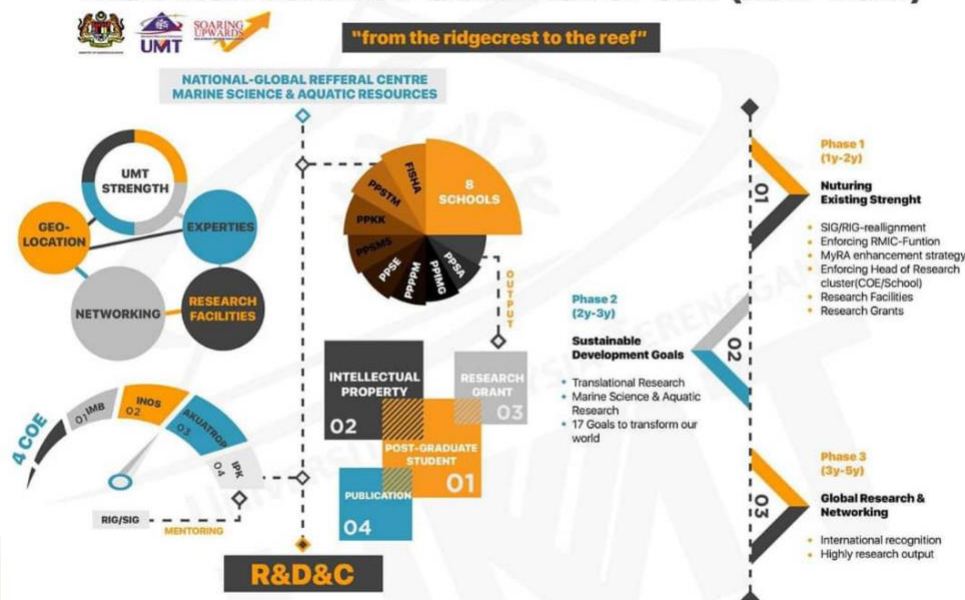
## UMT TO THE FUTURE

### MY VISION

1. CONTINUING MOMENTUM OF EXCELLENT MALAYSIA FOCUS UNIVERSITY (MFUN) AND IMPROVEMENT OF RANKING
2. ENHANCING THE DEVELOPING RESEARCH CULTURE OF UMT'S ACADEMICS TOWARDS MYRA 6 STARS
3. CONTINUOUS IMPROVEMENT OF THE ACADEMIC PROGRAM OFFERED TO SUIT THE NEEDS OF MALAYSIA MARKET TREND
4. IMPROVEMENT OF STUDENT AFFAIR AND WELFARE VIA ENHANCING PRIORITISED FACILITIES SUCH AS ACCOMMODATION AND CONDUSIVE CAMPUS FACILITIES
5. IMPROVEMENT AND ENHANCING UMT'S INTERNATIONAL NETWORKING WITH HIGH IMPACTS OF RESEARCH AND ACADEMIC COLLABORATION
6. ASSIMILATION OF RESEARCH FINDING TO SOCIETY WITH HIGH IMPACT TO COMMUNITY ECONOMY IMPROVEMENT (TRANSLATIONAL RESEARCHS)

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### RESEARCH ROADMAP & MILEAGE OF UMT (2017-2021)





# Leading scientists elected as Fellows of the Academy of Sciences Malaysia

Biological, Agricultural & Environmental Sciences Discipline



## Associate Professor Dr Siti Aisah Alias FASc

Expertise in the areas of marine and polar sciences led her to the discovery of various novel marine fungal species earning her multiple accolades, and subsequently paved the way for her to be actively involved in national and global polar research endeavours. This helped establish and solidify Malaysia's presence in the politics and science of Antarctica.



## Professor Dr Mazlan Abdul Ghaffar FASc

His expertise in fishery resources and management in Malaysia has led him to commanding various positions of leadership, establishing an extensive research network, and firmly positioning him within various advisory positions.



## Professor Dato' Dr Ismail Sahid FASc

His extensive knowledge in weed biology and environmental toxicology has attracted various research organisations to seek his expertise to improve crop management.



## Professor Dato' Dr Mohd Yazid Abd Manap FASc

An expert in Halal / dairy technologies and has significantly spurred the growth of Halal Sciences through exemplary leadership and extensive network.



## Professor Dr Paridah Md Tahir FASc

Her outstanding achievements in Wood Chemistry, particularly biocomposites, have established her as an authority in the field, her expertise is highly sought after by various committees that create standards and regulations for timber-related industries.



Think Science.  
Celebrate Technology.  
Inspire Innovation.

# 10. Award and Recognition

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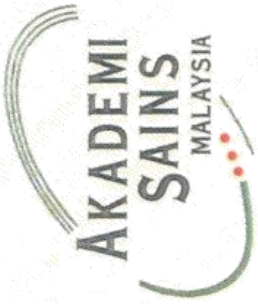
## Anugerah Perkhidmatan Cemerlang 1994

1. Anugerah Perkhidmatan Cemerlang 2004
2. Anugerah Peningkatan Citra UKM 2008
3. Anugerah Penerbitan UKM 2008
4. Anugerah Perkhidmatan Cemerlang 2012
5. ANUGERAH KHAS PERKHIDMATAN CEMERLANG 2015
6. Malaysia Academy of Science Fellow Award (FASc) 2018
7. Anugerah Khas Kepimpinan Akademik UMT 2018
  
8. Anugerah Khas Naib Canselor 2019

## 11. Membership International Societies

1. Ichthyological Society of Japan
  2. JSPS Alumni Association Malaysia (Lifetime Member)
- 
3. Marine Biology Association of United Kingdom
  4. Persatuan Sains Perikanan Malaysia
  5. Asian Ichthyological Society
  6. Asean Fisheries Society
  7. TAIWAN OCEANOGRAPHY SOCIETY





Dengan ini disahkan bahawa

**Profesor Dr Mazlan Abd Ghaffar FASc**

telah dipilih sebagai

*Felo*

pada

**28 April 2018**

di atas pencapaian dan sumbangan yang unggul kepada  
Sains, Kejuruteraan dan Teknologi bagi pembangunan negara

Presiden  
Akademi Sains Malaysia

Setiausaha Agung  
Akademi Sains Malaysia





# ANUGERAH JULANGAN BAKAT TAHUN 2018

*Anugerah Kepimpinan Akademik  
(Keseluruhan)*

Universiti Malaysia Terengganu (UMT)  
menganugerahkan sijil ini kepada

**MAZLAN BIN ABD GHAFFAR**  
**620418-11-5153**

atas kecemerlangan kepimpinan, kewibawaan dan keserjanaan ilmu  
yang telah memberi impak signifikan kepada UMT

*Profesor Dato' Dr. Nor Aieni Binti Haji Mokhtar*  
Naib Canselor  
Universiti Malaysia Terengganu



**JABATAN ALAM SEKITAR**  
**KEMENTERIAN SUMBER ASLI & ALAM SEKITAR**



AKUAN PENDAFTARAN SEBAGAI **SUBJECT CONSULTANT**

NOMBOR PENDAFTARAN: **CS0245**

Bahawa dengan ini diperakui

**MAZLAN ABD GAFFAR (PROF.)**

.....

telah berdaftar dengan Jabatan Alam Sekitar,  
Kementerian Sumber Asli Dan Alam Sekitar  
dalam menjalankan Penilaian Kesan Kepada Alam Sekeliling  
(EIA) di bawah Seksyen 34A,  
Akta Kualiti Alam Sekeliling, 1974.

Bidang-bidang yang didaftarkan adalah

1. *Marine Biology Studies*



**(DATO' HALIMAH BINTI HASSAN)**  
Ketua Pengarah Alam Sekeliling Malaysia

**Sah Sehingga :30 Jun 2020**

\*Tertakluk kepada syarat-syarat Skim Pendaftaran Jururunding EIA

